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Applicant: Gianfranco Guderzo

Application No.: 10/663,231

IN THE SPECIFICATION

[0047] The electronic control unit 40 also includes rear storage means 49 and front storage means 50, based upon which the electronic control unit 40 determines (in the ways described later on with reference to Figures 3-5) the logic values which the counters 47, 48 have when the derailleurs 14, 15 are positioned as desired with respect to sprockets 11, 12. ~~In other words, if the chain 13 is at a first sprocket 11 (12) and the counter 47 (48) has a first logic value, when the rider actuates the manual upwards gear shifting request command 43 (45) (or when such a request is generated by the electronic control unit 40 itself), the electronic control unit 40 provides for driving the actuator 16 (17) to displace the chain along axis A (B) in the selected direction until the counter 47 (48) reaches the logic value (read directly from the storage means 49 (50) or derived from the information read from the storage means 49 (50)) associated with the adjacent sprocket 11 (12), with immediately larger diameter. The chain 13 is then at the adjacent sprocket 11 (12), with immediately larger diameter. When the rider actuates the manual downwards gear shifting request command 44 (46) (or when such a request is generated by the electronic control unit 40 itself), the electronic control unit 40 provides for driving the actuator 16 (17) to displace the chain along axis A (B) in the selected direction until the counter 47 (48) reaches the logic value (read directly from the storage means 49 (50) or derived from the information read from the storage means 49 (50)) associated with the adjacent sprocket 11 (12), with immediately smaller diameter. The chain 13 is then at the adjacent sprocket 11 (12), with immediately smaller diameter.~~